

Logon

\*\*\* It is now 4/27/09 10:18:13 AM \*\*\*

## **Welcome to DialogLink - Version 5**

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- Derwent World Patents Index (for users in Japan) (File 352)
- Derwent World Patents Index First View (File 331)
- Derwent World Patents Index (File 351)
- Derwent World Patents Index (File 350)
- Ei EnCompassPat (File 353)
- European Patents Fulltext (File 348)
- French Patents (File 371)
- German Patents Fulltext (File 324)
- IMS Patent Focus (File 447, 947)
- INPADOC/Family and Legal Status (File 345)
- JAPIO - Patent Abstracts of Japan (File 347)
- LitAlert (File 670)
- U.S. Patents Fulltext (1971-1975) (File 652)

- U.S. Patents Fulltext (1976-present) (File 654)
- WIPO/PCT Patents Fulltext (File 349)
- TRADEMARKSCAN - U.S. Federal (File 226)

#### **DialogLink 5 Release Notes**

New features available in the latest release of DialogLink 5 (August 2006)

- Ability to resize images for easier incorporation into DialogLink Reports
- New settings allow users to be prompted to save Dialog search sessions in the format of their choice (Microsoft Word, RTF, PDF, HTML, or TEXT)
- Ability to set up Dialog Alerts by Chemical Structures and the addition of Index Chemicus as a structure searchable database
- Support for connections to STN Germany and STN Japan services

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? Help Log On Msg

\*\*\* ANNOUNCEMENTS \*\*\*

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\*\*\* FREE FILE OF THE MONTH (April) Prompt and Trade & Industry Database (Files 16 and 148)

Each month Dialog offers an opportunity to try out new or unfamiliar sources by offering \$100 of free searching (either DialUnits or connect time) in one specific file. Output and Alerts charges are not included. For more details visit: <http://www.dialog.com/freefile/> and then take a moment to get familiar with another great Dialog resource.

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and trademark databases, a link to an online order form is displayed in your search results, saving you time in obtaining the file histories you need. See HELP FILEHIST for more information about how to use the link and a list of files that contain the link.

#### NEW FILE

\*\*\*File 651, TRADEMARKSCAN(R) - China. See HELP NEWS 651 for details.

#### RESUMED UPDATING

\*\*\*File 523, D&B European Financial Records

\*\*\*

#### RELOADS COMPLETED

\*\*\*Files 154&155, MEDLINE(R)

\*\*\*File 669, TRADEMARKSCAN(R) - Japan

\*\*\*File 126, TRADEMARKSCAN(R) - United Kingdom

\*\*\*File 228, TRADEMARKSCAN(R) - Spain

\*\*\*File 672, TRADEMARKSCAN(R) - Germany

\*\*\*File 655, TRADEMARKSCAN(R) - Korea

\*\*\*File 656, TRADEMARKSCAN(R) - Australia

\*\*\*File 657, TRADEMARKSCAN(R) - France

\*\*\*File 673, TRADEMARKSCAN(R) - Italy

\*\*\*

#### FILES RENAMED

\*\*\*File 321, PLASPEC now known as Plastic Properties Database

\*\*\*

#### FILES REMOVED

\*\*\*File 301, CHEMNAME - please use File 398 ChemSearch

\*\*\*File 388, PEDS: Defense Program Summaries

\*\*\*File 588, DMS-FI Contract Awards

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? Help Off Line

\* \* \*

Connecting to Suzanne Noakes - Dialog - 276629

Connected to Dialog via SMS00415917

? b 155 biosci medicine 399

[File 155] **MEDLINE(R)** 1950-2009/Apr 24  
(c) format only 2009 Dialog. All rights reserved.

[File 5] **Biosis Previews(R)** 1926-2009/Apr W3  
(c) 2009 The Thomson Corporation. All rights reserved.

[File 24] **CSA Life Sciences Abstracts** 1966-2009/Jul  
(c) 2009 CSA. All rights reserved.

[File 28] **Oceanic Abstracts** 1966-2009/Jun  
(c) 2009 CSA. All rights reserved.

[File 34] **SciSearch(R) Cited Ref Sci** 1990-2009/Apr W2  
(c) 2009 The Thomson Corp. All rights reserved.

[File 35] **Dissertation Abs Online** 1861-2009/Mar  
(c) 2009 ProQuest Info&Learning. All rights reserved.

[File 40] **Enviroline(R)** 1975-2008/May  
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*\*File 40: This file is closed and will no longer update. For similar data, please search File 76-Environmental Sciences.*

[File 41] **Pollution Abstracts** 1966-2009/Jul  
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[File 44] **Aquatic Science & Fisheries Abstracts** 1966-2009/Jun  
(c) 2009 CSA. All rights reserved.

[File 45] **EMCare** 2009/Apr W2  
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[File 50] **CAB Abstracts** 1972-2009/Apr W3  
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*\*File 50: The file has been reloaded and accession numbers have changed. See HELP NEWS50 for information.*

[File 65] **Inside Conferences** 1993-2009/Apr 23  
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[File 71] **ELSEVIER BIOBASE** 1994-2009/Apr W4  
(c) 2009 Elsevier B.V. All rights reserved.

*\*File 71: The file has been reloaded. Accession numbers have changed.*

[File 72] **EMBASE** 1993-2009/Apr 24  
(c) 2009 Elsevier B.V. All rights reserved.

[File 73] **EMBASE** 1974-2009/Apr 24  
(c) 2009 Elsevier B.V. All rights reserved.

[File 76] **Environmental Sciences** 1966-2009/Jul  
(c) 2009 CSA. All rights reserved.

[File 91] **MANTIS(TM)** 1880-2009/Mar  
2001 (c) Action Potential. All rights reserved.

[File 98] **General Sci Abs** 1984-2009/Apr  
(c) 2009 The HW Wilson Co. All rights reserved.

[File 110] **WasteInfo** 1974-2002/Jul  
(c) 2002 AEA Techn Env. All rights reserved.  
*\*File 110: This file is closed (no updates)*

[File 135] **NewsRx Weekly Reports** 1995-2009/Apr W2  
(c) 2009 NewsRx. All rights reserved.

[File 136] **BioEngineering Abstracts** 1966-2007/Jan  
(c) 2007 CSA. All rights reserved.  
*\*File 136: This file is closed.*

[File 143] **Biol. & Agric. Index** 1983-2009/Mar  
(c) 2009 The HW Wilson Co. All rights reserved.

[File 144] **Pascal** 1973-2009/Apr W4  
(c) 2009 INIST/CNRS. All rights reserved.

[File 154] **MEDLINE(R)** 1990-2009/Apr 24  
(c) format only 2009 Dialog. All rights reserved.

[File 164] **Allied & Complementary Medicine** 1984-2009/Apr  
(c) 2009 BLHCIS. All rights reserved.

[File 172] **EMBASE Alert** 2009/Apr 24  
(c) 2009 Elsevier B.V. All rights reserved.

[File 185] **Zoological Record Online(R)** 1864-2009/Apr  
(c) 2009 The Thomson Corp. All rights reserved.

[File 357] **Derwent Biotech Res.** \_1982-2009/Mar W3  
(c) 2009 Thomson Reuters. All rights reserved.

[File 369] **New Scientist** 1994-2009/Apr W2  
(c) 2009 Reed Business Information Ltd. All rights reserved.

[File 370] **Science** 1996-1999/Jul W3  
(c) 1999 AAAS. All rights reserved.  
*\*File 370: This file is closed (no updates). Use File 47 for more current information.*

[File 391] **Beilstein Database - Reactions** 2008/Q2  
(c) 2008 Beilstein GmbH. All rights reserved.

[File 434] **SciSearch(R) Cited Ref Sci** 1974-1989/Dec  
(c) 2006 The Thomson Corp. All rights reserved.

[File 467] **ExtraMED(tm)** 2000/Dec  
(c) 2001 Informania Ltd. All rights reserved.

[File 138] **Physical Education Index** 1990-2009/Jun  
(c) 2009 CSA. All rights reserved.

[File 149] **TGG Health&Wellness DB(SM)** 1976-2009/Mar W4  
(c) 2009 Gale/Cengage. All rights reserved.

[File 156] **ToxFile** 1965-2009/Apr W3  
(c) format only 2009 Dialog. All rights reserved.

[File 159] **Cancerlit** 1975-2002/Oct  
(c) format only 2002 Dialog. All rights reserved.

[File 162] **Global Health** 1983-2009/Apr W3  
(c) 2009 CAB International. All rights reserved.

*\*File 162: The file has been reloaded and accession numbers have changed. See HELP NEWS 162 for information.*

[File 266] **FEDRIP** 2009/Jan  
Comp & dist by NTIS, Intl Copyright All Rights Res. All rights reserved.

[File 399] **CA SEARCH(R)** 1967-2009/UD=15018  
(c) 2009 American Chemical Society. All rights reserved.

*\*File 399: Use is subject to the terms of your user/customer agreement. IPCR/8 classification codes now searchable as IC=. See HELP NEWSIPCR.*

[File 444] **New England Journal of Med.** 1985-2009/Jan W2  
(c) 2009 Mass. Med. Soc. All rights reserved.

? s (protein triblock copolymer)

S1 0 S (PROTEIN TRIBLOCK COPOLYMER)

? s (triblock copolymer)

S2 4857 S (TRIBLOCK COPOLYMER)

? s s2(N5) (protein or peptide)

Processing

4857 S2

17134864 PROTEIN

2926538 PEPTIDE

S3 21 S S2(N5) (PROTEIN OR PEPTIDE)

? s s2(N5) (protein or peptide or elastin or ELP)

4857 S2

17134864 PROTEIN

2926538 PEPTIDE

58686 ELASTIN

3092 ELP

S4 25 S S2(N5) (PROTEIN OR PEPTIDE OR ELASTIN OR ELP)

? rd

>>>W: Duplicate detection is not supported for File 391.

Records from unsupported files will be retained in the RD set.

S5 25 RD (UNIQUE ITEMS)

? t s5/medium, k/all

>>>W: KWIC option is not available in file(s): 399

5/K/1 (Item 1 from file: 34)

Fulltext available through: [STIC Full Text Retrieval Options](#)

SciSearch(R) Cited Ref Sci

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18421438 **Genuine Article#:** 360MZ **No. References:** 47

**In situ gelling aqueous solutions of pH- and temperature-sensitive poly(ester amino urethane)s**

**Author:** Dayananda K; He C; Lee DS (REPRINT)

**Corporate Source:** Sungkyunkwan Univ, Dept Polymer Sci & Engn, Suwon 440746/Gyeonggi/South Korea/  
(REPRINT); Sungkyunkwan Univ, Dept Polymer Sci & Engn, Suwon 440746/Gyeonggi/South Korea/

**Journal:** POLYMER, 2008, V 49, N21 (OCT 6), P 4620-4625

**ISSN:** 0032-3861 **Publication date:** 20081006

**Publisher:** ELSEVIER SCI LTD, THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5  
1GB, OXON, ENGLAND

**Language:** English **Document Type:** ARTICLE (ABSTRACT AVAILABLE)

**Identifiers--** ...BIODEGRADABLE BLOCK-COPOLYMERS; **TRIBLOCK COPOLYMER;**  
THERMOREVERSIBLE GELATION; MULTIBLOCK COPOLYMERS; **PROTEIN DELIVERY;** PHASE-  
TRANSITION; DRUG-DELIVERY; HYDROGELS; PEG; BEHAVIOR

**Research Fronts:**

5/K/2 (Item 2 from file: 34)

Fulltext available through: [STIC Full Text Retrieval Options](#)

SciSearch(R) Cited Ref Sci

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18280932 **Genuine Article#:** 347DJ **No. References:** 44

**Formation of reversible shell cross-linked micelles from the biodegradable amphiphilic diblock copolymer poly(L-cysteine)-block-poly(L-lactide)**

**Author:** Sun J; Chen XS; Lu TC; Liu S; Tian HY; Guo ZP; Jing XB (REPRINT)

**Corporate Source:** Chinese Acad Sci, State Key Lab Polymer Phys & Chem, Changchun Inst Appl Chem, Changchun 130022//Peoples R China/ (REPRINT); Chinese Acad Sci, State Key Lab Polymer Phys & Chem, Changchun Inst Appl Chem, Changchun 130022//Peoples R China/; Chinese Acad Sci, Grad Sch, Beijing 100039//Peoples R China/

**Journal:** LANGMUIR , 2008 , V 24 , N18 ( SEP 16 ) , P 10099-10106

**ISSN:** 0743-7463 **Publication date:** 20080916

**Publisher:** AMER CHEMICAL SOC , 1155 16TH ST, NW, WASHINGTON, DC 20036 USA

**Language:** English **Document Type:** ARTICLE ( ABSTRACT AVAILABLE )

**Identifiers--** ...N-CARBOXYANHYDRIDES; **TRIBLOCK COPOLYMER**; DISULFIDE; POLYMERIZATION; ACID); DELIVERY; **PEPTIDE**; WATER; CORE; CONJUGATION

**Research Fronts:**

5/K/3 (Item 3 from file: 34)

Fulltext available through: [STIC Full Text Retrieval Options](#)

SciSearch(R) Cited Ref Sci

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17567179 **Genuine Article#:** 271JM **No. References:** 56

**Validation and divergence of the activation energy barrier crossing transition at the AOT/Lecithin reverse micellar interface**

**Author:** Narayanan SS; Sinha SS; Sarkar R; Pal SK (REPRINT)

**Corporate Source:** SN Bose Natl Ctr Basic Sci, Unit Nano Sci & Technol, Dept Chem Biol & Macromol Sci, Block JD, Sector 3/Calcutta 700098//India/ (REPRINT); SN Bose Natl Ctr Basic Sci, Unit Nano Sci & Technol, Dept Chem Biol & Macromol Sci, Calcutta 700098//India/

**Journal:** JOURNAL OF PHYSICAL CHEMISTRY B , 2008 , V 112 , N10 ( MAR 13 ) , P 2859-2867

**ISSN:** 1520-6106 **Publication date:** 20080313

**Publisher:** AMER CHEMICAL SOC , 1155 16TH ST, NW, WASHINGTON, DC 20036 USA

**Language:** English **Document Type:** ARTICLE ( ABSTRACT AVAILABLE )

**Identifiers--** ...TEMPERATURE-DEPENDENT SOLVATION; WATER-MOLECULES; PHOTOPHYSICAL PROPERTIES; DIELECTRIC-RELAXATION; ROTATIONAL RELAXATION; **TRIBLOCK COPOLYMER**; POLAR SOLVATION; DYNAMICS; **PROTEIN**; HYDRATION

**Research Fronts:**

5/K/4 (Item 4 from file: 34)

Fulltext available through: [STIC Full Text Retrieval Options](#)

SciSearch(R) Cited Ref Sci

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17423883 **Genuine Article#:** 260UT **No. References:** 46



## **Injectable block copolymer hydrogels for sustained release of a PEGylated drug**

**Author:** Yu L; Chang GT; Zhang H; Ding JD (REPRINT)

**Corporate Source:** Fudan Univ, Minist Educ Res, Dept Macromol Sci, Adv Mat Lab, Key Lab Mol Engn Polymer, Shanghai 200433//Peoples R China/ (REPRINT); Fudan Univ, Minist Educ Res, Dept Macromol Sci, Adv Mat Lab, Key Lab Mol Engn Polymer, Shanghai 200433//Peoples R China/

**Journal:** INTERNATIONAL JOURNAL OF PHARMACEUTICS , 2008 , V 348 , N1-2 ( FEB 4 ) , P 95-106

**ISSN:** 0378-5173 **Publication date:** 20080204

**Publisher:** ELSEVIER SCIENCE BV , PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS

**Language:** English **Document Type:** ARTICLE ( ABSTRACT AVAILABLE )

**Identifiers--** ...MODEL **PROTEIN DRUGS**; **DELIVERY-SYSTEMS**; **TRIBLOCK COPOLYMER**; **AQUEOUS-SOLUTIONS**; **THERMOSENSITIVE HYDROGEL**; **MICELLAR-SOLUTIONS**; **PLGA MICROSPHERES**; **ETHYLENE-OXIDE**; **GENE DELIVERY**; **GEL MATRIX**

**Research Fronts:**

5/K/5 (Item 5 from file: 34)

Fulltext available through: [STIC Full Text Retrieval Options](#)

SciSearch(R) Cited Ref Sci

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17335000 **Genuine Article#:** 251VA **No. References:** 37

## **Thermal gelation and photo-polymerization of di-acrylated Pluronic F 127**

**Author:** Lee SY; Tae G (REPRINT) ; Kim YH

**Corporate Source:** Gwangju Inst Sci & Technol, Res Ctr Biomol Nanotechnol, 1 Oryong Dong/Kwangju 500712//South Korea/ (REPRINT); Gwangju Inst Sci & Technol, Res Ctr Biomol Nanotechnol, Kwangju 500712//South Korea/; Gwangju Inst Sci & Technol, Dept Mat Sci & Engn, Kwangju 500712//South Korea/

**Journal:** JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION , 2007 , V 18 , N10 , P 1335-1353

**ISSN:** 0920-5063 **Publication date:** 20070000

**Publisher:** VSP BV , BRILL ACADEMIC PUBLISHERS, PO BOX 9000, 2300 PA LEIDEN, NETHERLANDS

**Language:** English **Document Type:** ARTICLE ( ABSTRACT AVAILABLE )

**Identifiers--** ...IN-SITU PHOTOPOLYMERIZATION; **ADHESION PREVENTION**; **HYDROGEL BARRIERS**; **DRUG-DELIVERY**; **TRIBLOCK COPOLYMER**; **CONTROLLED-RELEASE**; **GLYCOL**; **PROTEIN**; **GELS**; **RAT**

**Research Fronts:**

5/K/6 (Item 6 from file: 34)

Fulltext available through: [STIC Full Text Retrieval Options](#)

SciSearch(R) Cited Ref Sci

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16272174 **Genuine Article#:** 147YK **No. References:** 27

## **Synthesis and characterization of a novel arginine-grafted dendritic block copolymer for gene delivery and study of its cellular uptake pathway leading to transfection**

**Author:** Kim TI; Baek JU; Yoon JK; Choi JS; Kim K; Park JS (REPRINT)

**Corporate Source:** Seoul Natl Univ, Sch Chem & Mol Engn, San 56-1, Shillim Dong/Seoul 151742//South Korea/

(REPRINT); Seoul Natl Univ,Sch Chem & Mol Engr,Seoul 151742//South Korea/; Chungnam Natl Univ,Dept Biochem,Taejon 305764//South Korea/

**Journal:** BIOCONJUGATE CHEMISTRY , 2007 , V 18 , N2 ( MAR-APR ) , P 309-317

**ISSN:** 1043-1802 **Publication date:** 20070300

**Publisher:** AMER CHEMICAL SOC , 1155 16TH ST, NW, WASHINGTON, DC 20036 USA

**Language:** English **Document Type:** ARTICLE ( ABSTRACT AVAILABLE )

**Identifiers--** ...COATED PIT FORMATION; MEDIATED ENDOCYTOSIS; PENETRATING PEPTIDES; **TRIBLOCK COPOLYMER**; RICH PEPTIDES; TAT **PEPTIDE**; DNA; EFFICIENCY; MACROPINOCYTOSIS; POLYPLEXES

**Research Fronts:**

5/K/7 (Item 7 from file: 34)

Fulltext available through: [STIC Full Text Retrieval Options](#)

SciSearch(R) Cited Ref Sci

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15206251 **Genuine Article#:** 047NJ **No. References:** 33

**Biodegradable heparin-loaded microspheres: Carrier molecular composition and microsphere structure**

**Author:** Luo XL (REPRINT) ; Qiu D; He B; Wang LJ; Luo J

**Corporate Source:** Sichuan Univ,Coll Polymer Sci & Polymer Engr, State Key Lab Polymer Mat & Engr,Chengdu 610065//Peoples R China/ (REPRINT); Sichuan Univ,Coll Polymer Sci & Polymer Engr, State Key Lab Polymer Mat & Engr,Chengdu 610065//Peoples R China/ ( luoxl@mail.edu.cn )

**Journal:** MACROMOLECULAR BIOSCIENCE , 2006 , V 6 , N5 ( MAY 23 ) , P 373-381

**ISSN:** 1616-5187 **Publication date:** 20060523

**Publisher:** WILEY-V C H VERLAG GMBH , PO BOX 10 11 61, D-69451 WEINHEIM, GERMANY

**Language:** English **Document Type:** ARTICLE ( ABSTRACT AVAILABLE )

**Identifiers--** ...DRUG-DELIVERY SYSTEMS; CONTROLLED-RELEASE; **TRIBLOCK COPOLYMER**; IN-VITRO; IMMOBILIZATION; POLYMERS; **PROTEIN**; PACLITAXEL; PARAMETERS; MATRICES

**Research Fronts:**

5/K/8 (Item 8 from file: 34)

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SciSearch(R) Cited Ref Sci

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15149234 **Genuine Article#:** BEE77 **No. References:** 25

**A surfactant copolymer facilitates functional recovery of heat-denatured lysozyme**

**Author:** Walsh AM; Mustafi D; Makinen MW; Lee RC (REPRINT)

**Corporate Source:** Univ Chicago Hosp,Dept Surg,MC 6035,5841 S Maryland Ave/Chicago//IL/60637 (REPRINT); Univ Chicago Hosp,Dept Surg,Chicago//IL/60637; Univ Chicago,Ctr Integrat Sci, Dept Biochem & Mol Biol,Chicago//IL/60637 ( r-lee@uchicago.edu )  
, 2005 , V 1066 , P 321-327

**ISSN:** 0077-8923 **Publication date:** 20050000

**Publisher:** NEW YORK ACAD SCIENCES , 2 EAST 63RD ST, NEW YORK, NY 10021 USACELL INJURY: MECHANISMS, RESPONSES, AND REPAIR

**Series:** ANNALS OF THE NEW YORK ACADEMY OF SCIENCES

**Language:** English **Document Type:** ARTICLE ( ABSTRACT AVAILABLE )

5/K/9 (Item 9 from file: 34)

Fulltext available through: [STIC Full Text Retrieval Options](#)

SciSearch(R) Cited Ref Sci

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13821354 **Genuine Article#:** 915PI **No. References:** 27

**Viscoelastic and mechanical behavior of recombinant protein elastomers**

**Author:** Nagapudi K; Brinkman WT; Thomas BS; Park JO; Srinivasarao M; Wright E; Conticello VP; Chaikof EL (REPRINT)

**Corporate Source:** Emory Univ,Dept Surg,1639 Pierce Dr,Room 5105/Atlanta//GA/30322 (REPRINT); Emory Univ,Dept Surg,Atlanta//GA/30322; Emory Univ,Dept Biomed Engn,Atlanta//GA/30322; Georgia Inst Technol,Sch Polymer Text & Fiber Engn,Atlanta//GA/30332; Georgia Inst Technol,Sch Chem & Biochem,Atlanta//GA/30332; Emory Univ,Dept Chem,Atlanta//GA/30322; Georgia Inst Technol,Sch Chem & Biomol Engn,Atlanta//GA/30332; Merck & Co Inc,Rahway//NJ/07095 ( echaiko@emory.edu )

**Journal:** BIOMATERIALS , 2005 , V 26 , N23 ( AUG ) , P 4695-4706

**ISSN:** 0142-9612 **Publication date:** 20050800

**Publisher:** ELSEVIER SCI LTD , THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, OXON, ENGLAND

**Language:** English **Document Type:** ARTICLE ( ABSTRACT AVAILABLE )

5/K/10 (Item 10 from file: 34)

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SciSearch(R) Cited Ref Sci

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09352329 **Genuine Article#:** 397KJ **No. References:** 33

**Enhancement of the excluded-volume effect in protein extraction using triblock copolymer-based aqueous micellar two-phase systems**

**Author:** Tani H (REPRINT) ; Suzuki Y; Matsuda A; Kamidate T

**Corporate Source:** Hokkaido Univ,Grad Sch Engn, Div Mol Chem,Sapporo/Hokkaido 0608628/Japan/ (REPRINT); Hokkaido Univ,Grad Sch Engn, Div Mol Chem,Sapporo/Hokkaido 0608628/Japan/

**Journal:** ANALYTICA CHIMICA ACTA , 2001 , V 429 , N2 ( FEB 23 ) , P 301-309

**ISSN:** 0003-2670 **Publication date:** 20010223

**Publisher:** ELSEVIER SCIENCE BV , PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS

**Language:** English **Document Type:** ARTICLE ( ABSTRACT AVAILABLE )

5/K/11 (Item 11 from file: 34)

Fulltext available through: [STIC Full Text Retrieval Options](#)

SciSearch(R) Cited Ref Sci

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06544481 **Genuine Article#:** ZA359 **No. References:** 30

**On surface modification of polymeric biomaterials**

**Author:** Kummerlowe C (REPRINT) ; Kammer HW

**Corporate Source:** FACHHSCH OSNABRUCK,ALBRECHTSTR 30/D-49076 OSNABRUCK//GERMANY/  
(REPRINT); UNIV SAINS MALAYSIA,SCH CHEM SCI/MINDEN 11800/PENANG/MALAYSIA/

**Journal:** JOURNAL OF ADHESION , 1997 , V 64 , N1-4 , P 131-144

**ISSN:** 0021-8464 **Publication date:** 19970000

**Publisher:** GORDON BREACH SCI PUBL LTD , C/O STBS LTD, PO BOX 90, READING, BERKS, ENGLAND  
RG1 8JL

**Language:** English **Document Type:** ARTICLE ( ABSTRACT AVAILABLE )

5/K/12 (Item 1 from file: 144)

Pascal

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18955122 PASCAL No.: 09-0011316

Deformation Responses of a Physically Cross-Linked High Molecular Weight  
Elastin-Like Protein Polymer

XIAOYI WU; SALLACH Rory E; CAVES Jeffrey M; CONTICELLO Vincent  
P; CHAIKOF Elliot L

Department of Surgery, Emory University, Atlanta, Georgia 30332, United  
States; Biomedical Engineering, Emory University/Georgia Institute of  
Technology, Atlanta, Georgia 30332, United States; Department of Chemistry,  
Emory University, Atlanta, Georgia 30332, United States; School of Chemical  
and Biomolecular Engineering, Georgia Institute of Technology, Atlanta,  
Georgia 30322, United States

Journal: Biomacromolecules, 2008  
, 9 (7) 1787-1794

Language: English

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English Descriptors: Proline copolymer; Alanine copolymer; Glycine  
copolymer; **Triblock copolymer**; Model compound; **Elastin**;  
Preparation; Biosynthesis; Microorganism culture; Aqueous solution;  
Concentrated solution; Gelation; Hydrogel; Physical gel; Viscoelasticity;  
Stress strain...

5/K/13 (Item 2 from file: 144)

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18553379 PASCAL No.: 08-0133923

Genetic Engineering of Self-Assembled Protein Hydrogel Based on  
Elastin-like Sequences with Metal Binding Functionality

LOI LAO U; MINWEI SUN; MATSUMOTO Mark; MULCHANDANI Ashok; CHEN  
Wilfred

Department of Chemical and Environmental Engineering, University of  
California, Riverside, California 92507, United States

Journal: Biomacromolecules, 2007  
, 8 (12) 3736-3739

Language: English

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English Descriptors: Recombinant **protein**; **Triblock** copolymer;  
Histidine copolymer; Biosynthesis; Microorganism culture; Genetically  
modified microorganism; Aqueous solution; Gelation; Hydrogel; Physical  
gel...

5/K/14 (Item 3 from file: 144)

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18298225 PASCAL No.: 07-0397029

Stabilizer-induced viscosity alteration biases nanoparticle sizing via  
dynamic light scattering

FILLAFER Christian; WIRTH Michael; GABOR Franz

Department of Pharmaceutical Technology and Biopharmaceutics, Faculty of  
Life Sciences, University of Vienna, Vienna, Austria  
Journal: Langmuir, 2007  
, 23 (17) 8699-8702  
Language: English

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English Descriptors: Viscosity; Nanoparticle; Sizing; Dynamics; Light  
scattering; Colloid; Particle; Surfactant; **Protein**; Suspension;  
**Triblock copolymer**; Poloxamer; Nanosphere; Assay; Particle size;  
Diameter; Fluctuations

5/K/15 (Item 4 from file: 144)

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18213491 PASCAL No.: 07-0304257

Micelle density regulated by a reversible switch of protein secondary  
structure

SALLACH Rory E; MIN WEI; BISWAS Nilanjana; CONTICELLO Vincent  
P; LECOMMANDOUX Sebastien; DLUHY Richard A; CHAIKOF Elliot L  
Department of Biomedical Engineering, Georgia Institute of Technology,  
Atlanta, Georgia 30332, United States; Departments of Surgery and  
Biomedical Engineering, Emory University School of Medicine, United States;  
Department of Chemistry, University of Georgia, Athens, Georgia, United  
States; Department of Chemistry, Emory University, Atlanta, Georgia 30322,  
United States; CNRS Laboratory of Organic Polymer Chemistry, University  
Bordeaux, Talence, France; School of Chemical and Biomolecular Engineering,  
Georgia Institute of Technology, Atlanta, Georgia 30332, United States  
Journal: Journal of the American Chemical Society  
, 2006, 128 (36  
) 12014-12019  
Language: English

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English Descriptors: Micelle; Selector switch; Protein; Secondary structure  
; Molecular structure; Recombinant DNA; **Triblock copolymer**;  
Hydrophilic compound; Hydrophobic compound; **Elastin**;  
Peptidomimetic compound; Dilute solution; Amphiphilic compound; Chemical  
reduction; Helical structure; Folding; Polymer; Reaction mechanism; Drug  
...

5/K/16 (Item 5 from file: 144)

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17874475 PASCAL No.: 06-0473787

Characterization of the changes in secondary structure and architecture  
of elastin : Mimetic triblock polypeptides during thermal gelation

D'SOUZA Ajit Joseph M; HART David S; MIDDAUGH C Russell;  
GEHRKE Stevin H

Molecular Biology, University of Wyoming, Laramie, Wyoming 82071, United  
States; Pharmaceutical Chemistry, The University of Kansas, Lawrence,  
Kansas 66045, United States; Chemical and Petroleum Engineering, The  
University of Kansas, Lawrence, Kansas 66045, United States

Journal: Macromolecules, 2006  
, 39 (20) 7084-7091

Language: English

Copyright (c) 2006 INIST-CNRS. All rights reserved.

English Descriptors: Valine copolymer; Proline copolymer; Glycine copolymer  
; Alanine copolymer; Glutamic acid copolymer; **Triblock copolymer**;  
Model compound; **Elastin**; Aqueous solution; Gelation; Hydrogel;  
Physical gel; Conformational transition; Temperature effect; Experimental  
study

5/K/17 (Item 6 from file: 144)

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17542980 PASCAL No.: 06-0129823

Structural control of self-assembled nanofibers by artificial beta-sheet peptides composed of D- or L-isomer

KOGA Tomoyuki; MATSUOKA Miho; HIGASHI Nobuyuki  
Department of Molecular Science and Technology, Faculty of Engineering,  
Doshisha University, Kyotanabe, Kyoto 610-0321, Japan

Journal: Journal of the American Chemical Society  
, 2005, 127 (50  
) 17596-17597

Language: English

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English Descriptors: Oligopeptides; Amphiphilic polymer; **Triblock copolymer**; Amyloid **protein** AA; Nanostructure; Stereospecificity; Circular dichroism; Molecular aggregation; Molecular assembly; Molecular association; Atomic force microscopy

5/K/18 (Item 7 from file: 144)

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17462640 PASCAL No.: 06-0045893

Alterations in physical cross-linking modulate mechanical properties of two-phase protein polymer networks

XIAOYI WU; SALLACH Rory; HALLER Carolyn A; CAVES Jeffrey A;  
NAGAPUDI Karthik; CONTICELLO Vincent P; LEVENSTON Marc E; CHAIKOF Elliot L

Department of Surgery, Emory University, Atlanta, Georgia 30332, United States; Department of Biomedical Engineering, Emory University School of Medicine and Georgia Institute of Technology, Atlanta, Georgia 30332, United States; Merck & Company, Rahway, New Jersey 07095, United States; Department of Chemistry, Emory University, Atlanta, Georgia 30332, United States; School of Mechanical, Georgia Institute of Technology, Atlanta,



Georgia 30322, United States; School of Chemical Engineering, Georgia  
Institute of Technology, Atlanta, Georgia 30322, United States  
Journal: Biomacromolecules, 2005  
, 6 (6) 3037-3044

Language: English

Copyright (c) 2006 INIST-CNRS. All rights reserved.

English Descriptors: Valine copolymer; Proline copolymer; Glycine copolymer  
; Terpolymer; **Triblock copolymer**; Model compound; **Elastin**;  
Stress strain relation; Tensile stress; Plastic deformation; Mechanism;  
Stress relaxation; Creep curve; Dynamic mechanical properties...

5/K/19 (Item 8 from file: 144)

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17236813 PASCAL No.: 05-0308496

Reversible hydrogels from self-assembling genetically engineered protein  
block copolymers

CHUNYU XU; BREEDVELD Victor; KOPECEK Jindtich  
Departments of Pharmaceuitics and Pharmaceutical Chemistry and of  
Bioengineering, University of Utah, Salt Lake City, Utah 84112, United  
States; School of Chemical & Biomolecular Engineering, Georgia  
Institute of Technology, Atlanta, Georgia 30332, United States  
Journal: Biomacromolecules, 2005  
, 6 (3) 1739-1749

Language: English

Copyright (c) 2005 INIST-CNRS. All rights reserved.

English Descriptors: Recombinant **protein**; **Triblock** copolymer;  
Ethylene oxide copolymer; Microstructure; Aminoacid sequence; Aqueous  
solution; Conformation; Gelation; Physical gel; Hydrogel; Mechanism...

5/K/20 (Item 9 from file: 144)

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17087645 PASCAL No.: 05-0153209

Protein-based thermoplastic elastomers

NAGAPUDI Karthik; BRINKMAN William T; LEISEN Johannes; THOMAS Benjamin S; WRIGHT Elizabeth R; HALLER Carolyn; XIAOYI WU; APKARIAN Robert P; CONTICELLO Vincent P; CHAIKOF Elliot L

Departments of Surgery and Biomedical Engineering, Emory University School of Medicine and Georgia Institute of Technology, Atlanta, Georgia 30332, United States; School of Polymer, Textile, and Fiber Engineering, Georgia Institute of Technology, Atlanta, Georgia 30322, United States; Department of Chemistry, Emory University, Atlanta, Georgia 30332, United States; Integrated Microscopy & Microanalytical Facility, Emory University, Atlanta, Georgia 30332, United States; School of Chemical and

Biomolecular Engineering, Georgia Institute of Technology, Atlanta, Georgia 30322, United States

Journal: Macromolecules, 2005  
, 38 (2) 345-354

Language: English

Copyright (c) 2005 INIST-CNRS. All rights reserved.

English Descriptors: Aminoacid copolymer; **Triblock copolymer**;  
Recombinant **protein**; Thermoplastic rubber; Control release polymer  
; Drug carrier; Biosynthesis; Genetic engineering; Morphology;  
Intramolecular mobility; Solid state...

5/K/21 (Item 10 from file: 144)

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17020412 PASCAL No.: 05-0083137

Triblock copolymers: synthesis, characterization, and delivery of a model protein

CHEN Sibao; PIEPER Robert; WEBSTER Dean C; SINGH Jagdish

Department of Pharmaceutical Sciences, North Dakota State University, PO Box 5055, Fargo, ND 58105, United States; Department of Polymer and Coatings, North Dakota State University. PO Box 5055, Fargo, ND 58105, United States

Journal: International journal of pharmaceutics,  
2005, 288 (2)  
207-218

Language: English

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English Descriptors: Lysozyme; **Triblock copolymer**; Characterization; **Protein**; Controlled release form; Thermal labile product; Biodegradability; Control release polymer; Biological activity; Pharmaceutical technology; Antiviral

5/K/22 (Item 11 from file: 144)

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16083970 PASCAL No.: 03-0234917

Adsorbed surfactants for affinity chromatography: End-group modification of ethylene glycol polymers

YANIC Cemile; BREDENKAMP Martin W; JACOBS Edmund P; SWART Pieter

Institute of Polymer Science, Stellenbosch University, Private Bag X1, Matieland 7602, South Africa; Department of Chemistry, Stellenbosch University, Private Bag X1, Matieland 7602, South Africa; Department of Biochemistry, Stellenbosch University, Private Bag X1, Matieland 7602,

South Africa

Journal: Bioorganic & medicinal chemistry letters  
, 2003, 13 (7  
) 1381-1384  
Language: English

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English Descriptors: Affinity chromatography; Separation; Carrier  
**protein**; Albumin; Stationary phase; **Triblock copolymer**;  
Ethylene oxide copolymer; Propylene oxide copolymer; Surfactant polymer;  
Chemical modification; End group; Primary amine...

5/K/23 (Item 12 from file: 144)

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14946873 PASCAL No.: 01-0098634

Protein release from physically crosslinked hydrogels of the PLA/PEO/PLA  
triblock copolymer-type

MOLINA Inmaculada; SUMING LI; MARTINEZ Manuel Bueno; VERT  
Michel

Research Centre for Artificial Biopolymers, UMR CNRS 5473, University  
Montpellier 1, Faculty of Pharmacy, 15 Ave. Charles Flahault, 34060  
Montpellier, France

Journal: Biomaterials, 2001  
, 22 (4) 363-369  
Language: English

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English Descriptors: **Triblock copolymer**; Crosslinking; Hydrogel;  
**Protein**; Phase separation; Controlled release form;  
Biodegradability; Ethylene glycol; Lactic acid polymer; Fibrinogen; In  
vitro

5/K/24 (Item 13 from file: 144)

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14120145 PASCAL No.: 99-0315972

Aqueous two-phase systems containing self-associating block copolymers :  
Partitioning of hydrophilic and hydrophobic biomolecules

SVENSSON M; BERGGREN K; VEIDE A; TJERNELD F

Department of Physical Chemistry 1, Center for Chemistry and Chemical Engineering, Lund University, P.O. Box 124, 221 00 Lund, Sweden; Department of Biochemistry, Center for Chemistry and Chemical Engineering, Lund University, P.O. Box 124, 221 00 Lund, Sweden; Department of Biotechnology, The Royal Institute of Technology, 100 44 Stockholm, Sweden

Journal: Journal of chromatography,  
1999, 839 (1-2) 71-83

Language: English

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...English Descriptors: chromatography; Biphasic system; Micelle; Non ionic surfactant; Surfactant polymer; Ethylene oxide copolymer; Propylene oxide copolymer; **Triblock copolymer**; Dextran; Phase diagram;  
**Protein**; Lysozyme; Serum albumin; Cytochrome c; Recombinant protein; Binding protein; IgG; Staphylococcus; Bacteriorhodopsin; Peptides; Gramicidin; Polypeptide...

5/K/25 (Item 14 from file: 144)

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13880804 PASCAL No.: 99-0059726

Plasma protein adsorption on biodegradable microspheres consisting of poly(D, L-lactide-co-glycolide), poly(L-lactide) or ABA triblock copolymers containing poly(oxyethylene) influence of production method and polymer

composition

LUECK M; PISTEL K F; LI Y X; BLUNK T; MUELLER R H; KISSEL T

Department of Pharmaceutics, Biopharmaceutics and Biotechnology, The Free University of Berlin, Kelchstrasse 31, 12169 Berlin, Germany; Department of Pharmaceutics and Biopharmaceutics, Philipps-University, Marburg, Germany; Massachusetts Institute of Technology, Cambridge MA, United States

Journal: Journal of controlled release,  
1998, 55 (2-3)  
107-120

Language: English

Copyright (c) 1999 INIST-CNRS. All rights reserved.

...English Descriptors: Microsphere; Drug carrier; Control release polymer; Lactic acid polymer; Ester copolymer; Anhydride polymer; Aliphatic polymer; **Triblock copolymer**; Ethylene oxide polymer; Serum **protein**; Adsorption; Two dimensional electrophoresis; Spray drying ; Water oil water emulsion; Microencapsulation

? t s5/full/10,11

5/9/10 (Item 10 from file: 34)

Fulltext available through: [STIC Full Text Retrieval Options](#)

SciSearch(R) Cited Ref Sci

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09352329 **Genuine Article#:** 397KJ **Number of References:** 33

**Enhancement of the excluded-volume effect in protein extraction using triblock copolymer-based aqueous micellar two-phase systems**

**Author:** Tani H (REPRINT) ; Suzuki Y; Matsuda A; Kamidate T

**Corporate Source:** Hokkaido Univ, Grad Sch Engn, Div Mol Chem, Sapporo/Hokkaido 0608628/Japan/ (REPRINT); Hokkaido Univ, Grad Sch Engn, Div Mol Chem, Sapporo/Hokkaido 0608628/Japan/

**Journal:** ANALYTICA CHIMICA ACTA , 2001 , V 429 , N2 ( FEB 23 ) , P 301-309

**ISSN:** 0003-2670 **Publication date:** 20010223

**Publisher:** ELSEVIER SCIENCE BV , PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS

**Language:** English **Document Type:** ARTICLE

**Geographic Location:** Japan

**Journal Subject Category:** CHEMISTRY, ANALYTICAL

**Abstract:** Triblock copolymer surfactants consisting of poly(ethylene oxide) (PEO) and poly(propylene oxide) (PPO), Pluronic L61 (PEO-PPO-PEO, L61) and Pluronic 25R2 (PPO-PEO-PPO, 25R2) were exploited in aqueous micellar two-phase systems for the protein extraction. The extraction was based on the phase separation into surfactant-depleted and -condensed phases (an aqueous and a surfactant-rich phases, respectively) upon warming aqueous micellar solutions of triblock copolymer. In both systems, hydrophilic proteins such as albumin were not extracted into the surfactant-rich phase. On the other hand, hydrophobic cytochrome b(5) was well extracted in the L61 system due to hydrophobic interaction. However, the extraction of cytochrome b(5) was not observed in the 25R2 system. This abnormal extractability of cytochrome b5 in the 25R2 system was explained by the enhanced excluded-volume interaction between cytochrome b(5) and 25R2 micellar network in the surfactant-rich phase, which overcomes the hydrophobic interaction. Additionally, ionic surfactants were added into the systems for controlling extractability of proteins. In the 25R2 system, cationic tetradecyltrimethylammonium was effective for extracting anionic cytochrome bs against the excluded-volume effect, while not for anionic albumin because of its large molecular weight. In 25R2 system containing ionic surfactant, the partitioning of proteins were found to be governed by the hydrophobic, excluded-volume, and electrostatic interactions. Micellar network formed by 25R2 type of surfactant with a strong excluded-volume interaction could provide new selective extraction systems for the separation of proteins. (C) 2001 Elsevier Science B.V. All rights reserved.

**Descriptors--Author Keywords:** **triblock copolymer** ; phase separation ; **protein** partitioning ; excluded-volume interaction ; hydrophobic interaction ; electrostatic interaction

**Identifiers-- KeyWord Plus(R):** CLOUD-POINT EXTRACTIONS; MEMBRANE-PROTEINS; PARTIAL-PURIFICATION; LIVER-MICROSOMES; 2-PHASE SYSTEMS; TRITON X-114; SEPARATION; REDUCTASE; SURFACTANTS; DETERGENTS

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SVENSSON M, 1997, V761, P91, J CHROMATOGR A  
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TANI H, 1998, V14, P875, ANAL SCI  
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5/9/11 (Item 11 from file: 34)

Fulltext available through: [STIC Full Text Retrieval Options](#)

SciSearch(R) Cited Ref Sci

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06544481 **Genuine Article#:** ZA359 **Number of References:** 30

**On surface modification of polymeric biomaterials**

**Author:** Kummerlowe C (REPRINT) ; Kammer HW

**Corporate Source:** FACHHSCH OSNABRUCK,ALBRECHTSTR 30/D-49076 OSNABRUCK//GERMANY/  
(REPRINT); UNIV SAINS MALAYSIA,SCH CHEM SCI/MINDEN 11800/PENANG/MALAYSIA/

**Journal:** JOURNAL OF ADHESION , 1997 , V 64 , N1-4 , P 131-144

**ISSN:** 0021-8464 **Publication date:** 19970000

**Publisher:** GORDON BREACH SCI PUBL LTD , C/O STBS LTD, PO BOX 90, READING, BERKS, ENGLAND  
RG1 8JL

**Language:** English **Document Type:** ARTICLE

**Geographic Location:** GERMANY; MALAYSIA

**Subfile:** CC PHYS--Current Contents, Physical, Chemical & Earth Sciences; CC ENGI --Current Contents,  
Engineering, Computing & Technology

**Journal Subject Category:** ENGINEERING, CHEMICAL; MATERIALS SCIENCE; MECHANICS

**Abstract:** Surface modification with hydrophilic polymers has been beneficial in improving blood compatibility of biomaterials. Formation of dense and tightly-bonded surface layers may prevent plasma protein adsorption owing to steric repulsion. General conditions for formation of layers, protecting blood components from direct contacts with the surface, are discussed. It seems to be necessary to ensure a delicate balance between adsorption energy of the attached chains and their length. The crucial point is to get a high grafting density which is more influential than high chain length. Length should be calibrated to the size of protein molecules to meet both effective repulsion and high density of the protecting chains and to avoid chain displacement by plasma proteins.

**Descriptors--Author Keywords:** grafting density ; steric repulsion ; hydrophobic interaction ; biocompatibility ;  
**protein** adsorption ; poly(ethylene oxide) ; **triblock copolymer**

**Identifiers-- KeyWord Plus(R):** POLY(ETHYLENE OXIDE); PLATELET DEPOSITION; PROTEIN  
ADSORPTION; HYDROGEL; HEPARIN; BIOCOMPATIBILITY; ADHESION; ALBUMIN

**Cited References:**

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 NOGUCHI T, 1991, V2, P101, J APPL BIOMATER  
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 SMITH BAH, 1993, V27, P89, J BIOMED MATER RES  
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? d s

Set	Items	Description
S1	0	S (PROTEIN TRIBLOCK COPOLYMER)
S2	4857	S (TRIBLOCK COPOLYMER)
S3	21	S S2(N5) (PROTEIN OR PEPTIDE)
S4	25	S S2(N5) (PROTEIN OR PEPTIDE OR ELASTIN OR ELP)
S5	25	RD (unique items)

? s s2 and (ELP or elastin)

	4857	S2
	3092	ELP
	58686	ELASTIN
S6	9	S S2 AND (ELP OR ELASTIN)

? rd

>>>W: Duplicate detection is not supported for File 391.

Records from unsupported files will be retained in the RD set.

S7 9 RD (UNIQUE ITEMS)

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7/3/1 (Item 1 from file: 5)

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Biosis Previews(R)

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17075520 **Biosis No.:** 200300034239

**Self-assembly of block copolymers derived from elastin-mimetic polypeptide sequences.**

**Author:** Wright Elizabeth R; Conticello Vincent P (Reprint)

**Author Address:** Department of Chemistry, Emory University, 1515 Pierce Drive, Atlanta, GA, 30322, USA\*\*USA

**Author E-mail Address:** vcontic@emory.edu

**Journal:** Advanced Drug Delivery Reviews 54 ( 8 ): p 1057-1073 18 October, 2002 2002

**Medium:** print

**ISSN:** 0169-409X

**Document Type:** Article; Literature Review

**Record Type:** Citation

**Language:** English

7/3/2 (Item 1 from file: 34)

Fulltext available through: [STIC Full Text Retrieval Options](#)

SciSearch(R) Cited Ref Sci

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13821354 **Genuine Article#:** 915PI **No. References:** 27

**Viscoelastic and mechanical behavior of recombinant protein elastomers**

**Author:** Nagapudi K; Brinkman WT; Thomas BS; Park JO; Srinivasarao M; Wright E; Conticello VP; Chaikof EL (REPRINT)

**Corporate Source:** Emory Univ,Dept Surg,1639 Pierce Dr,Room 5105/Atlanta//GA/30322 (REPRINT); Emory Univ,Dept Surg,Atlanta//GA/30322; Emory Univ,Dept Biomed Engn,Atlanta//GA/30322; Georgia Inst Technol,Sch Polymer Text & Fiber Engn,Atlanta//GA/30332; Georgia Inst Technol,Sch Chem & Biochem,Atlanta//GA/30332; Emory Univ,Dept Chem,Atlanta//GA/30322; Georgia Inst Technol,Sch Chem & Biomol Engn,Atlanta//GA/30332; Merck & Co Inc,Rahway//NJ/07095 ( echaiko@emory.edu )

**Journal:** BIOMATERIALS , 2005 , V 26 , N23 ( AUG ) , P 4695-4706

**ISSN:** 0142-9612 **Publication date:** 20050800

**Publisher:** ELSEVIER SCI LTD , THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, OXON, ENGLAND

**Language:** English **Document Type:** ARTICLE ( ABSTRACT AVAILABLE )

7/3/3 (Item 1 from file: 144)

Pascal

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18955122 PASCAL No.: 09-0011316

Deformation Responses of a Physically Cross-Linked High Molecular Weight  
**Elastin**-Like Protein Polymer

XIAOYI WU; SALLACH Rory E; CAVES Jeffrey M; CONTICELLO Vincent  
P; CHAIKOF Elliot L

Department of Surgery, Emory University, Atlanta, Georgia 30332, United  
States; Biomedical Engineering, Emory University/Georgia Institute of  
Technology, Atlanta, Georgia 30332, United States; Department of Chemistry,  
Emory University, Atlanta, Georgia 30332, United States; School of Chemical  
and Biomolecular Engineering, Georgia Institute of Technology, Atlanta,  
Georgia 30322, United States

Journal: Biomacromolecules, 2008  
, 9 (7) 1787-1794

Language: English

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7/3/4 (Item 2 from file: 144)

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18553379 PASCAL No.: 08-0133923

Genetic Engineering of Self-Assembled Protein Hydrogel Based on  
**Elastin**-like Sequences with Metal Binding Functionality

LOI LAO U; MINWEI SUN; MATSUMOTO Mark; MULCHANDANI Ashok; CHEN  
Wilfred

Department of Chemical and Environmental Engineering, University of  
California, Riverside, California 92507, United States

Journal: Biomacromolecules, 2007  
, 8 (12) 3736-3739

Language: English

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7/3/5 (Item 3 from file: 144)

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18213491 PASCAL No.: 07-0304257

Micelle density regulated by a reversible switch of protein secondary structure

SALLACH Rory E; MIN WEI; BISWAS Nilanjana; CONTICELLO Vincent P; LECOMMANDOUX Sebastien; DLUHY Richard A; CHAIKOF Elliot L

Department of Biomedical Engineering, Georgia Institute of Technology, Atlanta, Georgia 30332, United States; Departments of Surgery and Biomedical Engineering, Emory University School of Medicine, United States; Department of Chemistry, University of Georgia, Athens, Georgia, United States; Department of Chemistry, Emory University, Atlanta, Georgia 30322, United States; CNRS Laboratory of Organic Polymer Chemistry, University Bordeaux, Talence, France; School of Chemical and Biomolecular Engineering, Georgia Institute of Technology, Atlanta, Georgia 30332, United States

Journal: Journal of the American Chemical Society  
, 2006, 128 (36)  
) 12014-12019

Language: English

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7/3/6 (Item 4 from file: 144)

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17874475 PASCAL No.: 06-0473787

Characterization of the changes in secondary structure and architecture of **elastin** : Mimetic triblock polypeptides during thermal gelation

D'SOUZA Ajit Joseph M; HART David S; MIDDAUGH C Russell; GEHRKE Stevin H

Molecular Biology, University of Wyoming, Laramie, Wyoming 82071, United States; Pharmaceutical Chemistry, The University of Kansas, Lawrence, Kansas 66045, United States; Chemical and Petroleum Engineering, The University of Kansas, Lawrence, Kansas 66045, United States

Journal: Macromolecules, 2006

, 39 (20) 7084-7091

Language: English

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7/3/7 (Item 5 from file: 144)

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17462640 PASCAL No.: 06-0045893

Alterations in physical cross-linking modulate mechanical properties of two-phase protein polymer networks

XIAOYI WU; SALLACH Rory; HALLER Carolyn A; CAVES Jeffrey A; NAGAPUDI Karthik; CONTICELLO Vincent P; LEVENSTON Marc E; CHAIKOF Elliot L

Department of Surgery, Emory University, Atlanta, Georgia 30332, United States; Department of Biomedical Engineering, Emory University School of Medicine and Georgia Institute of Technology, Atlanta, Georgia 30332, United States; Merck & Company, Rahway, New Jersey 07095, United States ; Department of Chemistry, Emory University, Atlanta, Georgia 30332, United States; School of Mechanical, Georgia Institute of Technology, Atlanta,

Georgia 30322, United States; School of Chemical Engineering, Georgia Institute of Technology, Atlanta, Georgia 30322, United States

Journal: Biomacromolecules, 2005

, 6 (6) 3037-3044

Language: English

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7/3/8 (Item 6 from file: 144)

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17136776 PASCAL No.: 05-0204771

Stimulus responsive behavior of **elastin**-based side chain polymers

AYRES Lee; KOCH Kaspar; HANS P; ADAMS H M; VAN HEST Jan C M

Organic Chemistry Department, Institute for Molecules and Materials,  
Radboud University Nijmegen, Toernooiveld 1, 6525 ED, Nijmegen, Netherlands  
Journal: Macromolecules, 2005  
, 38 (5) 1699-1704

Language: English

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7/3/9 (Item 7 from file: 144)

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16238373 PASCAL No.: 03-0399189

**Elastin**-based side-chain polymers synthesized by ATRP

AYRES Lee; VOS Matthijn R J; ADAMS P J Hans M; SHKLYAREVSKIY  
Igor O; VAN HEST Jan C M

NSRIM Organic Chemistry Department, University of Nijmegen, Toernooiveld  
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University of Nijmegen, Toernooiveld 7, 6525 ED Nijmegen, Netherlands  
Journal: Macromolecules, 2003  
, 36 (16) 5967-5973

Language: English

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Set	Items	Description
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S1	0	S (PROTEIN TRIBLOCK COPOLYMER)
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S2	4857	S (TRIBLOCK COPOLYMER)
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S3	21	S S2(N5)(PROTEIN OR PEPTIDE)
----	----	------------------------------

S4	25	S S2(N5)(PROTEIN OR PEPTIDE OR ELASTIN OR ELP)
----	----	--

S5 25 RD (unique items)  
S6 9 S S2 AND (ELP OR ELASTIN)  
S7 9 RD (unique items)

? S S2 AND collagen

4857 S2

914608 COLLAGEN

S8 5 S S2 AND COLLAGEN

? rd

>>>W: Duplicate detection is not supported for File 391.

Records from unsupported files will be retained in the RD set.

S9 5 RD (UNIQUE ITEMS)

? t s9/medium/all

9/3/1 (Item 1 from file: 34)

Fulltext available through: [STIC Full Text Retrieval Options](#)

SciSearch(R) Cited Ref Sci

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12340324 **Genuine Article#:** 753ZL **No. References:** 22

**Thermosensitive hydrogel as a Tgf-beta 1 gene delivery vehicle enhances diabetic wound healing**

**Author:** Lee PY; Li ZH; Huang L (REPRINT)

**Corporate Source:** Univ Pittsburgh,Sch Pharm, Ctr Pharmacogenet,633 Salk Hall/Pittsburgh//PA/15213 (REPRINT); Univ Pittsburgh,Sch Pharm, Ctr Pharmacogenet,Pittsburgh//PA/15213

**Journal:** PHARMACEUTICAL RESEARCH , 2003 , V 20 , N12 ( DEC ) , P 1995-2000

**ISSN:** 0724-8741 **Publication date:** 20031200

**Publisher:** KLUWER ACADEMIC/PLENUM PUBL , 233 SPRING ST, NEW YORK, NY 10013 USA

**Language:** English **Document Type:** ARTICLE ( ABSTRACT AVAILABLE )

9/3/2 (Item 1 from file: 144)

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18886448 PASCAL No.: 08-0494646

Temperature-Sensitive Poly(caprolactone-co-trimethylene carbonate)-Poly(ethylene glycol)-Poly(caprolactone-co-trimethylene carbonate) as in Situ Gel-Forming Biomaterial

SO HYUN PARK; BO GYU CHOI; MIN KYUNG JOO; DONG KEUN HAN; YOUN  
SOO SOHN; JEONG Byeongmoon

Department of Chemistry, Division of Nano Sciences, Ewha Womans  
University, Daehyun-Dong, Seodaemun-Ku, Seoul 120-750, Korea, Republic of;  
Biomaterials Research Center, Korea Institute of Science and Technology  
(KIST), P.O. Box 131, Cheongryang, Seoul 130-650, Korea, Republic of

Journal: Macromolecules, 2008  
, 41 (17) 6486-6492

Language: English

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9/3/3 (Item 2 from file: 144)

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18616626 PASCAL No.: 08-0206873

Thermoreversible Hydrogels from RAFT-Synthesized BAB Triblock Copolymers  
: Steps toward Biomimetic Matrices for Tissue Regeneration

KIRKLAND Stacey E; HENSARLING Ryan M; MCCONAUGHY Shawn D;  
YANLIN GUO; JARRETT William L; MCCORMICK Charles L

Department of Polymer Science, The University of Southern Mississippi,  
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Sciences, The University of Southern Mississippi, Hattiesburg, Mississippi  
39406, United States; Department of Chemistry and Biochemistry, The  
University of Southern Mississippi, Hattiesburg, Mississippi 39406, United  
States

Journal: Biomacromolecules, 2008  
, 9 (2) 481-486

Language: English

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9/3/4 (Item 3 from file: 144)

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17501706 PASCAL No.: 06-0086787

Biodendrimer-based hydrogel- scaffolds for cartilage tissue repair

SOENTJENS Serge H M; NETTLES Dana L; CARNAHAN Michael A;  
SETTON Lori A; GRINSTAFF Mark W

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Engineering, Duke University, Durham, North Carolina, United States;  
Department of Ophthalmology, Duke University Medical Center, Durham, North  
Carolina, United States

Journal: Biomacromolecules, 2006  
, 7 (1) 310-316

Language: English

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9/3/5 (Item 4 from file: 144)

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13268280 PASCAL No.: 97-0541437

Biocompatibility of ABA triblock copolymer microparticles consisting of  
poly(L-lactic-co-glycolic-acid) A-blocks attached to central  
poly(oxyethylene) B-blocks in rats after intramuscular injection

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United States; Institute of Pathology, Case Western Reserve University,  
Cleveland, Ohio, United States

Journal: European journal of pharmaceutics and  
biopharmaceutics, 1997, 43  
(1) 19-28

Language: English

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#### Estimated Cost Summary

Project		Client		Charge Code		Searcher		Job		Service Code	User Number
						Suzanne Noakes				51	276629
Date		Time		SessionID		Subsession		Subaccount			
04/27/2009		09:58:29		131		3					
Data Base	Dial Units	Access Charge	Print Credit	Types	Prints	Report	Rank	Links	CSS	Total	
155	0.0380	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	
5	0.3780	2.34	0.00	2.44	0.00	0.00	0.00	0.00	0.00	4.78	
24	0.0380	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	
28	0.0240	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	
34	1.1170	31.80	0.00	124.20	0.00	0.00	0.00	0.00	0.00	156.00	
35	0.0350	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	
40	0.0240	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	
41	0.0240	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	
44	0.0380	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	
45	0.0690	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	
50	0.0350	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	
65	0.0280	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	
71	0.1390	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51	
72	0.2050	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.83	
73	0.2050	2.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.83	
76	0.0380	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	
91	0.0240	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	
98	0.0310	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	
110	0.0170	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	
135	0.0420	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	
136	0.0310	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	
143	0.0280	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	
144	0.6210	3.17	0.00	48.00	0.00	0.00	0.00	0.00	0.00	51.17	
154	0.0420	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	
164	0.0490	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	
172	0.0730	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01	
185	0.0310	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	
357	0.0280	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	
369	0.0380	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	
370	0.0280	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	
391	0.0380	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
434	0.0490	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	

467	0.0350	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
138	0.0420	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
149	0.0310	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
156	0.0490	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
159	0.0280	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
162	0.0490	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
266	0.0380	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
399	0.0550	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73
444	0.0620	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31
Sub Totals	3.9940	\$53.85	\$0.00	\$174.64	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$228.49
Session Totals	4.3750	\$53.99		<b>Telecom</b>	\$5.26					\$233.89

Ended session: 4/27/09 10:58:34 AM

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